

SEQUENCE LISTING

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JOHNSON, LESLIE  
WARD, ELIZABETH SALLY

<120> MOLECULES WITH EXTENDED HALF-LIVES, COMPOSITIONS AND USES THEREOF

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<150> 60/254,884  
<151> 2000-12-12

<150> 60/238,760  
<151> 2001-05-09

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<170> PatentIn version 3.1

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Asp Thr Phe Lys Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
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35 40 45

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50 55 60

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65 70 75 80

Val Leu Lys Val Thr Asn Met Asp Pro Ala Asp Thr Ala Thr Tyr Tyr  
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35 40 45

Asp Thr Phe Tyr Leu Ser Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
50 55 60

Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
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 35 40 45

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 50 55 60

Leu Lys Asp Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val  
 65 70 75 80

Val Leu Lys Val Thr Asn Met Asp Pro Ala Asp Thr Ala Thr Tyr Tyr  
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 35 40 45

Asp Thr Arg Gly Leu Pro Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
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 50 55 60  
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35 40 45

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Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
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 35 40 45  
 Asp Thr Phe Lys Leu Ser Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
 50 55 60  
 Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
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 Gly Met Ser Val Gly Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu  
 35 40 45

Trp Leu Ala Asp Ile Trp Trp Asp Gly Lys Lys Asp Tyr Asn Pro Ser  
50 55 60

Leu Lys Asp Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val  
65 70 75 80

Val Leu Lys Val Thr Asn Met Asp Pro Ala Asp Thr Ala Thr Tyr Tyr  
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35 40 45

Asp Thr Phe Lys Leu Ser Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
50 55 60

Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
65 70 75 80

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35 40 45

Trp Leu Ala Asp Ile Trp Trp Asp Gly Lys Lys Ser Tyr Asn Pro Ser  
50 55 60

Leu Lys Asp Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val  
65 70 75 80

Val Leu Lys Val Thr Asn Met Asp Pro Ala Asp Thr Ala Thr Tyr Tyr  
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35 40 45

Asp Thr Met Tyr Gln Ser Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
50 55 60

Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
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Gly Met Ser Val Gly Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu  
 35 40 45

Trp Leu Ala Asp Ile Trp Trp Asp Gly Lys Ser Tyr Asn Pro Ser  
 50 55 60

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 65 70 75 80

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35 40 45

Asp Thr Phe Phe Leu Asp Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
50 55 60

Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
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Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
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35 40 45

Trp Leu Ala Asp Ile Trp Trp Asp Asp Lys Ser Tyr Asn Pro Ser  
50 55 60

Leu Lys Asp Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val  
65 70 75 80

Val Leu Lys Val Thr Asn Met Asp Pro Ala Asp Thr Ala Thr Tyr Tyr  
85 90 95

Cys Ala Arg Asp Met Ile Phe Asn Trp Tyr Phe Asp Val Trp Gly Gln  
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Gly Thr Thr Val Thr Val Ser Ser  
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 Asp Thr Arg Tyr Gln Ser Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
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Trp Leu Ala Asp Ile Trp Trp Asp Asp Lys Lys Asp Tyr Asn Pro Ser  
50 55 60

Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val  
65 70 75 80

Val Leu Lys Val Thr Asn Met Asp Pro Ala Asp Thr Ala Thr Tyr Tyr  
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<223> VL Domain

<400> 56  
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Gly Tyr Met  
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
35 40 45

Asp Thr Phe Lys Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
50 55 60

Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
65 70 75 80

Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Gly Tyr Pro Phe Thr  
85 90 95

Phe Gly Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 57

<211> 106  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> VL Domain

<400> 57  
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Gly Tyr Met  
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
35 40 45

Asp Thr Tyr Lys Gln Thr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
50 55 60

Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
65 70 75 80

Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Gly Tyr Pro Phe Thr  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 58  
<211> 7  
<212> PRT  
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<400> 58  
Asp Thr Tyr Lys Gln Thr Ser  
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<210> 59  
<211> 106  
<212> PRT  
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<220>  
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<400> 59  
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Gly Tyr Met  
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
35 40 45

Asp Thr Arg Tyr Leu Ser Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
50 55 60

Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
 65 70 75 80

Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Gly Tyr Pro Phe Thr  
 85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
 100 105

<210> 60  
 <211> 106  
 <212> PRT  
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<400> 60  
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 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Gly Tyr Met  
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
 35 40 45

Asp Thr Phe Lys Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
 50 55 60

Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
 65 70 75 80

Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Phe Tyr Pro Phe Thr  
 85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
 100 105

<210> 61  
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 <212> PRT  
 <213> Homo sapiens

<400> 61  
 Phe Gln Gly Ser Phe Tyr Pro Phe Thr  
 1 5

<210> 62  
 <211> 106  
 <212> PRT  
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<220>  
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 <223> VL Domain

<400> 62  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Gly Tyr Met  
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
   35                          40                          45  
 Asp Thr Phe Lys Leu Thr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
   50                          55                          60  
 Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
   65                          70                          75                          80  
 Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Gly Tyr Pro Phe Thr  
   85                          90                          95  
 Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
   100                         105  
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 <211> 7  
 <212> PRT  
 <213> Homo sapiens  
 <400> 63  
 Asp Thr Phe Lys Leu Thr Ser  
   1                          5  
 <210> 64  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
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 <223> VL Domain  
 <400> 64  
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   1                          5                          10                          15  
 Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Gly Tyr Met  
   20                          25                          30  
 His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
   35                          40                          45  
 Asp Thr Phe Arg Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
   50                          55                          60  
 Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
   65                          70                          75                          80  
 Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Gly Tyr Pro Phe Thr  
   85                          90                          95  
 Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
   100                         105  
 <210> 65  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 65  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
 1 5 10 15  
 Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Gly Tyr Met  
 20 25 30  
 His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
 35 40 45  
 Asp Thr Phe Arg Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
 50 55 60  
 Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
 65 70 75 80  
 Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Gly Tyr Pro Phe Thr  
 85 90 95  
 Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
 100  
 <210> 66  
 <211> 7  
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 <213> Homo sapiens  
 <400> 66  
 Asp Thr Phe Arg Leu Ala Ser  
 1 5  
 <210> 67  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens  
 <400> 67  
 Gln Val Thr Leu Arg Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln  
 1 5 10 15  
 Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Thr Ala  
 20 25 30  
 Gly Met Ser Val Gly Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu  
 35 40 45  
 Trp Leu Ala Asp Ile Trp Trp Asp Asp Lys Lys His Tyr Asn Pro Ser  
 50 55 60  
 Leu Lys Asp Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val  
 65 70 75 80  
 Val Leu Lys Val Thr Asn Met Asp Pro Ala Asp Thr Ala Thr Tyr Tyr  
 85 90 95  
 Cys Ala Arg Asp Met Ile Phe Asn Trp Tyr Phe Asp Val Trp Gly Ala  
 100 105 110  
 Gly Thr Thr Val Thr Val Ser Ser  
 115 120  
 <210> 68

<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 68  
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
1 5 10 15  
Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Gly Tyr Met  
20 25 30  
His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
35 40 45  
Asp Thr Tyr Arg His Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
50 55 60  
Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
65 70 75 80  
Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Gly Tyr Pro Phe Thr  
85 90 95  
Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 69  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 69  
Asp Thr Tyr Arg His Ser Ser  
1 5

<210> 70  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 70  
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
1 5 10 15  
Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Gly Tyr Met  
20 25 30  
His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
35 40 45  
Asp Thr Tyr Lys Gln Thr Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
50 55 60  
Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
65 70 75 80  
Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Gly Tyr Pro Phe Thr  
85 90 95  
Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 71  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 71  
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
1 5 10 15  
Asp Arg Val Thr Ile Thr Cys Ser Leu Ser Ser Ser Val Gly Tyr Met  
20 25 30  
His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
35 40 45  
Asp Thr Phe Phe His Arg Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
50 55 60  
Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
65 70 75 80  
Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Gly Tyr Pro Phe Thr  
85 90 95

Phe Gly Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 72  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 72  
Ser Leu Ser Ser Ser Val Gly Tyr Met His  
1 5 10

<210> 73  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 73  
Asp Thr Phe Phe His Arg Ser  
1 5

<210> 74  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 74  
Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Arg Val Gly Tyr Met  
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
35 40 45

Asp Thr Leu Leu Leu Asp Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
50 55 60

Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
 65 70 75 80

Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Gly Tyr Pro Phe Thr  
 85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
 100 105

<210> 75  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 75  
 Asp Thr Leu Leu Asp Ser  
 1 5

<210> 76  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 76  
 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Arg Val Gly Tyr Met  
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr  
 35 40 45

Asp Thr Ser Phe Leu Asp Ser Gly Val Pro Ser Arg Phe Ser Gly Ser  
 50 55 60

Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp  
 65 70 75 80

Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly Ser Gly Tyr Pro Phe Thr  
 85 90 95

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
 100 105

<210> 77  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 77  
 Asp Thr Ser Phe Leu Asp Ser  
 1 5

<210> 78  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 78  
 Gln Val Thr Leu Arg Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln  
 1 5 10 15

Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Thr Ala  
20 25 30

Gly Met Ser Val Gly Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu  
35 40 45

Trp Leu Ala Asp Ile Trp Trp Asp Asp Lys Lys Asp Tyr Asn Pro Ser  
50 55 60

Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val  
65 70 75 80

Val Leu Lys Val Thr Asn Met Asp Pro Ala Asp Thr Ala Thr Tyr Tyr  
85 90 95

Cys Ala Arg Asp Met Ile Thr Asn Phe Tyr Phe Asp Val Trp Gly Ala  
100 105 110

Gly Thr Thr Val Thr Val Ser Ser  
115 120

<210> 79  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 79  
Asp Met Ile Thr Asn Phe Tyr Phe Asp Val  
1 5 10

<210> 80  
<211> 109  
<212> PRT  
<213> Homo sapiens

<400> 80  
Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys  
1 5 10 15

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val  
20 25 30

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr  
35 40 45

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu  
50 55 60

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His  
65 70 75 80

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys  
85 90 95

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala  
100 105

<210> 81  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 81  
Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg  
1 5 10 15

Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly  
20 25 30

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro  
35 40 45

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser  
50 55 60

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln  
65 70 75 80

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His  
85 90 95

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
100 105

<210> 82

<211> 15

<212> PRT

<213> Homo sapiens

<400> 82

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro  
1 5 10 15

<210> 83

<211> 232

<212> PRT

<213> Homo sapiens

<400> 83

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala  
1 5 10 15

Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro  
20 25 30

Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val  
35 40 45

Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val  
50 55 60

Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln  
65 70 75 80

Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln  
85 90 95

Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala  
100 105 110

Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro  
115 120 125

Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr  
 130 135 140  
 Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser  
 145 150 155 160  
 Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr  
 165 170 175  
 Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr  
 180 185 190  
 Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe  
 195 200 205  
 Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys  
 210 215 220  
 Ser Leu Ser Leu Ser Pro Gly Lys  
 225 230  
 <210> 84  
 <211> 365  
 <212> PRT  
 <213> Homo sapiens  
 <400> 84  
 Met Gly Val Pro Arg Pro Gln Pro Trp Ala Leu Gly Leu Leu Leu Phe  
 1 5 10 15  
 Leu Leu Pro Gly Ser Leu Gly Ala Glu Ser His Leu Ser Leu Leu Tyr  
 20 25 30  
 His Leu Thr Ala Val Ser Ser Pro Ala Pro Gly Thr Pro Ala Phe Trp  
 35 40 45  
 Val Ser Gly Trp Leu Gly Pro Gln Gln Tyr Leu Ser Tyr Asn Ser Leu  
 50 55 60  
 Arg Gly Glu Ala Glu Pro Cys Gly Ala Trp Val Trp Glu Asn Gln Val  
 65 70 75 80  
 Ser Trp Tyr Trp Glu Lys Glu Thr Thr Asp Leu Arg Ile Lys Glu Lys  
 85 90 95  
 Leu Phe Leu Glu Ala Phe Lys Ala Leu Gly Gly Lys Gly Pro Tyr Thr  
 100 105 110  
 Leu Gln Gly Leu Leu Gly Cys Glu Leu Gly Pro Asp Asn Thr Ser Val  
 115 120 125  
 Pro Thr Ala Lys Phe Ala Leu Asn Gly Glu Glu Phe Met Asn Phe Asp  
 130 135 140  
 Leu Lys Gln Gly Thr Trp Gly Gly Asp Trp Pro Glu Ala Leu Ala Ile  
 145 150 155 160  
 Ser Gln Arg Trp Gln Gln Asp Lys Ala Ala Asn Lys Glu Leu Thr  
 165 170 175  
 Phe Leu Leu Phe Ser Cys Pro His Arg Leu Arg Glu His Leu Glu Arg  
 180 185 190

Gly Arg Gly Asn Leu Glu Trp Lys Glu Pro Pro Ser Met Arg Leu Lys  
 195 200 205  
 Ala Arg Pro Ser Ser Pro Gly Phe Ser Val Leu Thr Cys Ser Ala Phe  
 210 215 220  
 Ser Phe Tyr Pro Pro Glu Leu Gln Leu Arg Phe Leu Arg Asn Gly Leu  
 225 230 235 240  
 Ala Ala Gly Thr Gly Gln Gly Asp Phe Gly Pro Asn Ser Asp Gly Ser  
 245 250 255  
 Phe His Ala Ser Ser Ser Leu Thr Val Lys Ser Gly Asp Glu His His  
 260 265 270  
 Tyr Cys Cys Ile Val Gln His Ala Gly Leu Ala Gln Pro Leu Arg Val  
 275 280 285  
 Glu Leu Glu Ser Pro Ala Lys Ser Ser Val Leu Val Val Gly Ile Val  
 290 295 300  
 Ile Gly Val Leu Leu Leu Thr Ala Ala Ala Val Gly Gly Ala Leu Leu  
 305 310 315 320  
 Trp Arg Arg Met Arg Ser Gly Leu Pro Ala Pro Trp Ile Ser Leu Arg  
 325 330 335  
 Gly Asp Asp Thr Gly Val Leu Leu Pro Thr Pro Gly Glu Ala Gln Asp  
 340 345 350  
 Ala Asp Leu Lys Asp Val Asn Val Ile Pro Ala Thr Ala  
 355 360 365  
 <210> 85  
 <211> 365  
 <212> PRT  
 <213> Mus sp.  
 <400> 85  
 Met Gly Met Pro Leu Pro Trp Ala Leu Ser Leu Leu Leu Val Leu  
 1 5 10 15  
 Pro Gln Thr Trp Gly Ser Glu Thr Arg Pro Pro Leu Met Tyr His Leu  
 20 25 30  
 Thr Ala Val Ser Asn Pro Ser Thr Gly Leu Pro Ser Phe Trp Ala Thr  
 35 40 45  
 Gly Trp Leu Gly Pro Gln Gln Tyr Leu Thr Tyr Asn Ser Leu Arg Gln  
 50 55 60  
 Glu Ala Asp Pro Cys Gly Ala Trp Val Trp Glu Asn Gln Val Ser Trp  
 65 70 75 80  
 Tyr Trp Glu Lys Glu Thr Thr Asp Leu Lys Ser Lys Glu Gln Leu Phe  
 85 90 95  
 Leu Glu Ala Leu Lys Thr Leu Glu Lys Ile Leu Asn Gly Thr Tyr Thr  
 100 105 110  
 Leu Gin Gly Leu Leu Gly Cys Glu Leu Ala Ser Asp Asn Ser Ser Val  
 115 120 125

Pro Thr Ala Val Phe Ala Leu Asn Gly Glu Glu Phe Met Lys Phe Asn  
 130 135 140  
 Pro Arg Ile Gly Asn Trp Thr Gly Glu Trp Pro Glu Thr Glu Ile Val  
 145 150 155 160  
 Ala Asn Leu Trp Met Lys Gln Pro Asp Ala Ala Arg Lys Glu Ser Glu  
 165 170 175  
 Phe Leu Leu Asn Ser Cys Pro Glu Arg Leu Leu Gly His Leu Glu Arg  
 180 185 190  
 Gly Arg Arg Asn Leu Glu Trp Lys Glu Pro Pro Ser Met Arg Leu Lys  
 195 200 205  
 Ala Arg Pro Gly Asn Ser Gly Ser Ser Val Leu Thr Cys Ala Ala Phe  
 210 215 220  
 Ser Phe Tyr Pro Pro Glu Leu Lys Phe Arg Phe Leu Arg Asn Gly Leu  
 225 230 235 240  
 Ala Ser Gly Ser Gly Asn Cys Ser Thr Gly Pro Asn Gly Asp Gly Ser  
 245 250 255  
 Phe His Ala Trp Ser Leu Leu Glu Val Lys Arg Gly Asp Glu His His  
 260 265 270  
 Tyr Gln Cys Gln Val Glu His Glu Gly Leu Ala Gln Pro Leu Thr Val  
 275 280 285  
 Asp Leu Asp Ser Ser Ala Arg Ser Ser Val Pro Val Val Gly Ile Val  
 290 295 300  
 Leu Gly Leu Leu Leu Val Val Val Ala Ile Ala Gly Gly Val Leu Leu  
 305 310 315 320  
 Trp Gly Arg Met Arg Ser Gly Leu Pro Ala Pro Trp Leu Ser Leu Ser  
 325 330 335  
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 340 345 350  
 Ala Glu Pro Gln Gly Ala Asn Ala Phe Pro Ala Thr Ser  
 355 360 365  
 <210> 86  
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 <212> PRT  
 <213> Homo sapiens  
 <400> 86  
 Val Leu His Gln Asp Trp Leu  
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 <210> 87  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens  
 <400> 87  
 Leu Met Ile Ser Arg Thr  
 1 5

<210> 88  
<211> 9  
<212> PRT  
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<400> 88  
Met His Glu Ala Leu His Asn His Tyr  
1 5

<210> 89  
<211> 5  
<212> PRT  
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<400> 89  
Gly Gin Pro Glu Asn  
1 5

<210> 90  
<211> 6  
<212> PRT  
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<400> 90  
Leu Tyr Ile Thr Arg Glu  
1 5

<210> 91  
<211> 6  
<212> PRT  
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<400> 91  
Leu Tyr Ile Ser Arg Thr  
1 5

<210> 92  
<211> 6  
<212> PRT  
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<400> 92  
Leu Tyr Ile Ser Arg Ser  
1 5

<210> 93  
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<212> PRT  
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<400> 93  
Leu Tyr Ile Ser Arg Arg  
1 5

<210> 94  
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<212> PRT  
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<400> 94  
Leu Tyr Ile Ser Arg Gln  
1 5

<210> 95  
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<400> 95  
Leu Trp Ile Ser Arg Thr  
1 5

<210> 96  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 96  
Leu Tyr Ile Ser Leu Gln  
1 5

<210> 97  
<211> 6  
<212> PRT  
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<400> 97  
Leu Phe Ile Ser Arg Asp  
1 5

<210> 98  
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<400> 98  
Leu Phe Ile Ser Arg Thr  
1 5

<210> 99  
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<400> 99  
Leu Phe Ile Ser Arg Arg  
1 5

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<212> PRT  
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<400> 100  
Leu Phe Ile Thr Gly Ala  
1 5

<210> 101  
<211> 6  
<212> PRT  
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<400> 101  
Leu Ser Ile Ser Arg Glu  
1 5

<210> 102  
<211> 6  
<212> PRT  
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<400> 102  
Arg Thr Ile Ser Ile Ser  
1 5

<210> 103  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 103  
Thr Pro His Ser Asp Trp Leu  
1 5

<210> 104  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 104  
Ile Pro His Glu Asp Trp Leu  
1 5

<210> 105  
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<212> PRT  
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<400> 105  
Arg Thr Arg Glu Pro  
1 5

<210> 106  
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<400> 106  
Asp Pro Pro Glu Ser  
1 5

<210> 107  
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<400> 107  
Ser Asp Pro Glu Pro  
1 5

<210> 108  
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<212> PRT  
<213> Homo sapiens

<400> 108  
Thr Ser His Glu Asn  
1 5

<210> 109  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 109  
Ser Lys Ser Glu Asn  
1 5

<210> 110  
<211> 5  
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<400> 110  
His Arg Ser Glu Asn  
1 5

<210> 111  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 111  
Lys Ile Arg Glu Asn  
1 5

<210> 112  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 112  
Gly Ile Thr Glu Ser  
1 5

<210> 113  
<211> 5  
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<400> 113  
Ser Met Ala Glu Pro  
1 5

<210> 114  
<211> 9  
<212> PRT  
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<400> 114  
Met His Glu Ala Leu Arg Tyr His His  
1 5

<210> 115  
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<212> PRT  
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<400> 115  
Met His Glu Ala Leu His Phe His His  
1 5

<210> 116  
<211> 9  
<212> PRT  
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<400> 116  
Met His Glu Ala Leu Lys Phe His His  
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